

Low-monomer prepolymer compsn. for polyurethane insulating foam - contains prepolymer with NCO, propellant gas and liq. polybutadiene as cell opening additive

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• Abstract :

DE4303848 A The prepolymer compsn. (I) for prodn. of 1- and 2-component polyurethane (PU) insulating foam from a pressure can is claimed, consisting of (a) a prepolymer component with PU prepolymer(s) contg. 6-18 wt.% NCO gps. together with normal additives and (b) a propellant gas component. The compsn. also contains 0.01-2 wt.% polybutadiene (II) w.r.t. component (a). Also claimed are pressure cans for producing 1-component PU foam, contg. compsn. (I) and pressure cans for producing 2-component PU foam, contg. compsn. (I) and a separate polyol component.

USE - The use of liq. polybutadiene (II) as an additive in prepolymer compsns. for controlling cell opening and dimensional stability of 1- and 2-component PU foam is claimed. (Dwg.0/0)

EP-684968 B prepolymer composition for producing polyurethane insulating foams from pressure tanks which consists of a prepolymer component, with at least one PU prepolymer with a content of NCO groups of 4 to 20 weight per cent and usual additives, as well as a propellant component, characterised by a content of 0.01 to 2 weight% based on the prepolymer component, of polybutadiene or copolymers of 1,3-polybutadiene with up to 50 molecule % of other dienes or vinylaromatic compounds, the polybutadiene or copolymer having a molecular weight of 1,000 to 9,000. (Dwg.0/0)

US6054499 A The prepolymer compsn. (I) for prodn. of 1- and 2-component polyurethane (PU) insulating foam from a pressure can is claimed, consisting of (a) a prepolymer component with PU prepolymer(s) contg. 6-18 wt.% NCO gps. together with normal additives and (b) a propellant gas component. The compsn. also contains 0.01-2 wt.% polybutadiene (II) w.r.t. component (a).

Also claimed are pressure cans for producing 1-component PU foam, contg. compsn. (I) and pressure cans for producing 2-component PU foam, contg. compsn. (I) and a separate polyol component.

USE - The use of liq. polybutadiene (II) as an additive in prepolymer compsns. for controlling cell opening and dimensional stability of 1- and 2-component PU foam is claimed.

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Patent assignee : (RATH-) RATHOR AG
Inventor(s) : PAULS M; SCHUMACHER R; SOMMER HD

WO9418256 A1 19940818 DW1994-34 C08G-

018/10 Ger 27p AP: 1994WO-EP00384 19940210 DSNW: AT AU BB BG BR CA CH CZ DE DK ES FI GB HU JP KP KR LK LU

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WO9418265 A1 19940818 DW1994-34 C08J-009/00 Ger 26p

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CH CZ DE DK ES FI GB HU JP KP KR LK LU MG MN MW NL

NO NZ PL PT RO RU SD SE SK UA US DSRW: AT BE CH DE

DK ES FR GB GR IE IT LU MC NL OA PT SE

WO9418268 A1 19940818 DW1994-34 C08K-005/521 Ger 27p

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CH CZ DE DK ES FI GB HU JP KP KR LK LU MG MN MW NL

NO NZ PL PT RO RU SD SE SK UA US DSRW: AT BE CH DE

DK ES FR GB GR IE IT LU MC NL OA PT SE

AU9461082 A 19940829 DW1995-01 C08J-009/00 FD: Based

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EP00383 19940210

AU9461083 A 19940829 DW1995-01 C08G-018/10 FD: Based

on WO9418256 AP: 1994AU-0061083 19940210; 1994WO-

EP00384 19940210

AU9461084 A 19940829 DW1995-01 C08K-005/521 FD: Based

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EP00385 19940210

EP-683805 A1 19951129 DW1996-01 C08K-005/521 Ger FD:

Based on WO9418268 AP: 1994EP-0907539 19940210; 1994WO-

EP00385 19940210 DSR: AT BE CH DE DK ES FR GB IT LI NL

EP-684960 A1 19951206 DW1996-02 C08G-018/10 Ger FD:

Based on WO9418256 AP: 1994EP-0907538 19940210; 1994WO-

EP00384 19940210 DSR: AT BE CH DE DK ES FR GB IT LI NL

EP-684968 A1 19951206 DW1996-02 C08J-009/00 Ger FD:

Based on WO9418265 AP: 1994EP-0907537 19940210; 1994WO-

EP00383 19940210 DSR: AT BE CH DE DK ES FR GB IT LI NL

CZ9502027 A3 19960117 DW1996-10 C08G-018/10 AP:

1995CZ-0002027 19940210

CZ9502028 A3 19960117 DW1996-10 C08K-005/521 AP:

1995CZ-0002028 19940210

CZ9502029 A3 19960117 DW1996-10 C08G-018/10 AP:

1995CZ-0002029 19940210

JP08506370 W 19960709 DW1996-50 C08G-018/10 31p FD:
 Based on WO9418256 AP: 1994JP-0517669 19940210; 1994WO-
 EP00384 19940210
 JP08506371 W 19960709 DW1996-50 C08G-018/10 21p FD:
 Based on WO9418268 AP: 1994JP-0517670 19940210; 1994WO-
 EP00385 19940210
 JP08506602 W 19960716 DW1996-50 C08G-018/10 24p FD:
 Based on WO9418265 AP: 1994JP-0517668 19940210; 1994WO-
 EP00383 19940210
 EP-684968 B1 19970806 DW1997-36 C08J-009/00 Ger 11p FD:
 Based on WO9418265 AP: 1994EP-0907537 19940210; 1994WO-
 EP00383 19940210 DSR: AT BE CH DE DK ES FR GB IT LI NL
 DE59403659 G 19970911 DW1997-42 C08J-009/00 FD: Based
 on EP-684968; Based on WO9418265 AP: 1994DE-5003659
 19940210; 1994EP-0907537 19940210; 1994WO-EP00383
 19940210
 ES2107190 T3 19971116 DW1998-01 C08J-009/00 FD: Based
 on EP-684968 AP: 1994EP-0907537 19940210
 AU-690538 B 19980430 DW1998-29 C08J-009/14 FD: Previous
 Publ. AU9461082; Based on WO9418265 AP: 1994AU-0061082
 19940210
 AU-690894 B 19980507 DW1998-30 C08G-018/10 FD:
 Previous Publ. AU9461083; Based on WO9418256 AP: 1994AU-
 0061083 19940210
 AU-691484 B 19980521 DW1998-32 C08K-005/521 FD:
 Previous Publ. AU9461084; Based on WO9418268 AP: 1994AU-
 0061084 19940210
 EP-684960 B1 19980805 DW1998-35 C08G-018/10 Ger FD:
 Based on WO9418256 AP: 1994EP-0907538 19940210; 1994WO-
 EP00384 19940210 DSR: AT BE CH DE DK ES FR GB IT LI NL
 DE59406619 G 19980910 DW1998-42 C08G-018/10 FD: Based
 on EP-684960; Based on WO9418256 AP: 1994DE-5006619
 19940210; 1994EP-0907538 19940210; 1994WO-EP00384
 19940210
 ES2123767 T3 19990116 DW1999-09 C08G-018/10 FD: Based
 on EP-684960 AP: 1994EP-0907538 19940210

US6054499 A 20000425 DW2000-27 B65D-083/14 FD:

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 0492118 19951016

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